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[1. 8.4.1W: Monitoring Active Region Development on the Far-Side of the Sun](#)

Release Date: 10-15-2014 Open Date: 10-15-2014 Due Date: 01-14-2015 Close Date: 01-14-2015

Summary: Space weather impacts a growing number of technologies that our society depends on. The need for space weather forecasts arose in the 1940s when the first radio communications were established. The Department of Defense relies on many technologies, such as early warning radars and satellite navigation, that are susceptible to space weather. The list of civil activities that are impacted ...

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[2. 8.4.2R: Ultrasonic Anemometers/Thermometers with Increased Spatial Resolution](#)

Release Date: 10-15-2014 Open Date: 10-15-2014 Due Date: 01-14-2015 Close Date: 01-14-2015

Summary: Ultrasonic anemometers/thermometers are commercially produced, robust instruments for measurements of temperature and velocity. Much of a progress in the boundary layer meteorology over the last few decades can be attributed to the wide use of these instruments. Due to concerns about wind distortion, the transducers of an ultrasonic anemometer are located at some distance from each ...

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[3. 8.4.3D: Accurate Nightlight for Satellite Calibration for Weather and Climate Applications](#)

Release Date: 10-15-2014 Open Date: 10-15-2014 Due Date: 01-14-2015 Close Date: 01-14-2015

Summary: The excellent on-orbit performance of the Suomi NPP VIIRS Day Night Band (DNB) ushers in a new era of low light imaging at night. Its extreme sensitivity to low lights has already been demonstrated in numerous emerging applications, e.g., the rescue of a Bering Sea Fleet crab fishing vessel trapped in ice in the winter of 2013 in Alaska. This unprecedented capability heavily d ...

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[4. 8.5: Stakeholder Engagement](#)

Release Date: 10-15-2014 Open Date: 10-15-2014 Due Date: 01-14-2015 Close Date: 01-14-2015

DOC SBIR NOAA-2015-1 Innovative Public Communication Technologies and Decision Support Tools 8.5 DOC SBIR NOAA-2015-1 ...

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[5. 8.5.1X: Innovative Public Communication Technologies and Decision Support Tools](#)

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Effective and reciprocal engagement with stakeholders and communication of its science and services to the public are key elements of NOAA's Engagement Enterprise. There is a clearly stated need for developing and using newer technologies and approaches for better and more timely delivery of information and knowledge to the users. Also, stakeholder response and engagemen ...

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6. [9.01: Cyber-Physical Systems](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Residential Heat Pump Fault Detection and Diagnostic Datalogger 9.01 DOC SBIR 2014-NIST-SBIR-01 ...

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7. [9.01.01.73-R : Residential Heat Pump Fault Detection and Diagnostic Datalogger](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

A low cost, modular system for monitoring and controlling a process or environment is applicable to a wide variety of commercial and consumer-based endeavors. The ability to measure a quantity and then affect a change to control that quantity, or a related quantity, is highly desirable in an innumerable number of scenarios whether it be on the manufacturing plant floor or even within the home. Thi ...

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8. [9.02: Cybersecurity](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Cryptographic Acceleration for Border Gateway Protocol Security (BGPSEC) Privacy Preserving Tools for Federated Authentication Models Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure Silicon Single ...

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9. [9.02.01.77-R : Cryptographic Acceleration for Border Gateway Protocol Security \(BGPSEC\)](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The Border Gateway Protocol (BGP) was initially developed in 1989 (RFC 1105 [1]) and last refined in 2006 to its current version BGP-4 (RFC 4271 [2]). Because the protocol itself does not provide any notion of security, more and more successful attacks against the protocol have been witnessed in recent years [3][4]. The Internet Engineering Taskforce (IETF) is currently developing two mechanisms w ...

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10. [9.02.02.77-R : Privacy Preserving Tools for Federated Authentication Models](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date:
05-02-2014

Legacy Internet communication protocols were designed for secure communication in the Dolev-Yao model. This model consists of two communicating parties and an adversary who can overhear, intercept, and synthesize any message. In this paradigm, the legitimate communicating parties only send messages to each other. No messages are sent to the third party, who is an adversary intent on preventing the ...

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